



APICAL INDUSTRIES, INC.  
dba DART AEROSPACE

ENGINEERING CHANGE NOTICE NO.

04702

SHEET 1 C 2

DWG NO. 647.1700

REV: C

PREPARED BY:

J. BECKER

DATE: 03/18/15

EFFECT ON DWG

☐ INC. ☒ UNINC.

DWG TITLE: SKID DEFLECTOR ASSY

APPROVED BY:

ENGR

MFG

QC

EFF:

CURRENT ORDER

TRANSACTION CODES (TC):

A-ADD C-CREATE

R-REVISE D-DELETE

REASON: REVISED HOLE DIMENSION. ADDED DELTA NOTES 7-10.

ECR #:

ACTIONS:

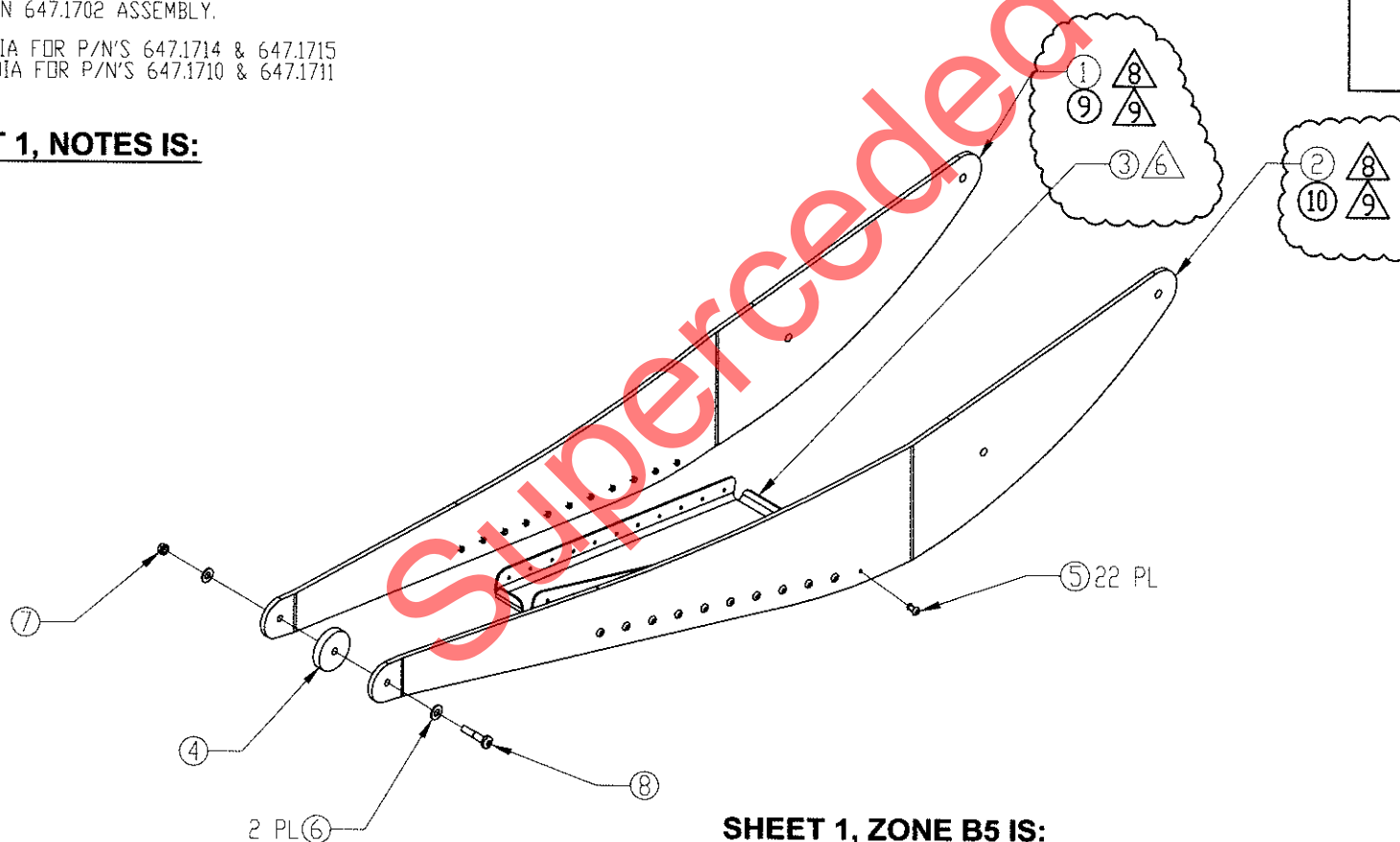
7 WITH EXCEPTION OF HOLE DIMENSION, ALL DIMENSIONS SAME AS P/N 647.1710 AND P/N 647.1711. RESPECTIVELY.

8 FOR P/N 647.1701 ASSEMBLY.

9 FOR P/N 647.1702 ASSEMBLY.

10 .323" DIA FOR P/N'S 647.1714 & 647.1715  
.257" DIA FOR P/N'S 647.1710 & 647.1711

SHEET 1, NOTES IS:



SHEET 1, ZONE B5 IS:

DOCUMENTS EFFECTED:

☐ PATTERN ☐ MDL ☐ INSTALL INSTRU

☐ ICA

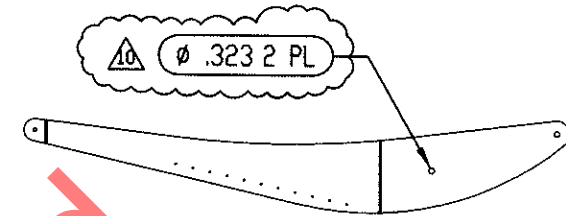
☐ BOM

CHANGE CATEGORY

☐ MAJOR ☒ MINOR

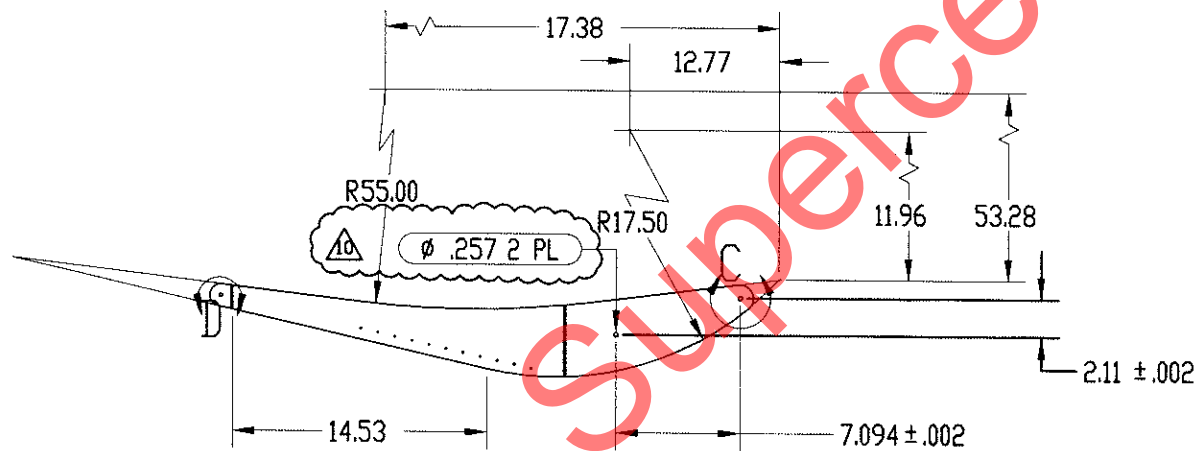
DER REVIEW REQUIRED

☐ YES ☒ NO



647.1714 SHOWN  
647.1715 OPPOSITE  $\Delta$

**SHEET 3, ZONE C8 IS:**



**SHEET 3, ZONE D4 IS:**

# APICAL

INDUSTRIES, INC.

ENGINEERING CHANGE NOTICE NO 04679				SHEET 1 OF 1	
DWG NO. 647.1700		REV: C	PREPARED BY: J. BECKER	DATE: 09/10/14	EFFECT ON DWG <input type="checkbox"/> INC. <input checked="" type="checkbox"/> UNINC.
DWG TITLE: SKID DEFLECTOR ASSY					
APPROVED BY:	ENGR <i>[Signature]</i>	MFG <i>[Signature]</i>	QC <i>[Signature]</i>	EFF: CURRENT ORDER	
TRANSACTION CODES (TC): A-ADD C-CREATE R-REVISE D-DELETE		REASON: REVISED BOM QUANTITY FOR 647.1702.			

Superseded

6	R	601.1607	2	2	WASHER	NAS1149F0332P	
5	R	601.1915	22	22	RIVET	CR3213-4-4	
F/N	TC	PART NUMBER	QTY		DESCRIPTION	MATERIAL	SPECIFICATION
			.1702	.1701			
DOCUMENTS EFFECTED:					CHANGE CATEGORY		DER REVIEW REQUIRED
<input type="checkbox"/> MDL <input type="checkbox"/> INSTALL INSTRUC <input type="checkbox"/> ICA <input checked="" type="checkbox"/> BOM					<input type="checkbox"/> MAJOR <input checked="" type="checkbox"/> MINOR		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF  
APICAL INDUSTRIES ANY REPRODUCTION IN PART OR WHOLE WITHOUT  
THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	LAST PROTOTYPE REVISION: PR2		N/C
N/C	INITIAL RELEASE	08/05/09	P. BRAVO
A	INCORPORATED ECN'S 02937 & 03921	06/07/13	P. BRAVO
B	INCORPORATED ECN 03970	07/03/13	P. BRAVO
C	INCORPORATED ECN 04058	08/14/13	P. BRAVO

NOTES:

1 MATERIAL: 7075-T6 ALUMINUM PER AMS-QQ-A-250/12

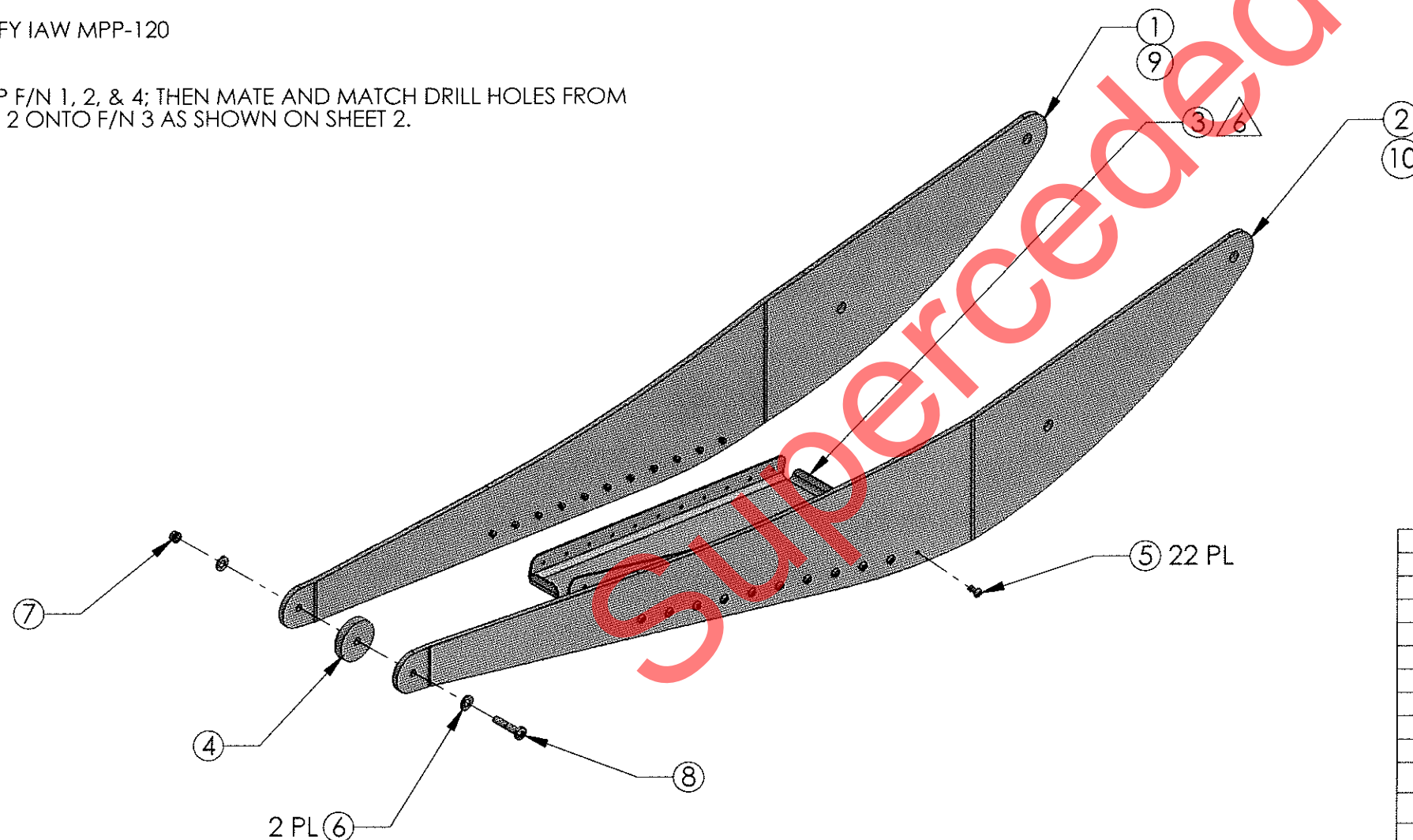
2 MATERIAL: 6061-T6 ALUMINUM BAR IAW AMS-QQ-A-250/11

3 FINISH: HARD ANODIZE IAW MIL-A-8625 TYPE III CLASS 2, COLOR BLACK;  
PRETREAT PRC-DESOTO PR-148 ADHESION PROMOTER, COLOR BLUE;  
PRIME IAW MIL-P-23377J TYPE I CLASS N; 1-2 MIL MAX

4. DEBURR AND BREAK ALL SHARP EDGES

5. IDENTIFY IAW MPP-120

6 CLAMP F/N 1, 2, & 4; THEN MATE AND MATCH DRILL HOLES FROM  
F/N 1 & 2 ONTO F/N 3 AS SHOWN ON SHEET 2.

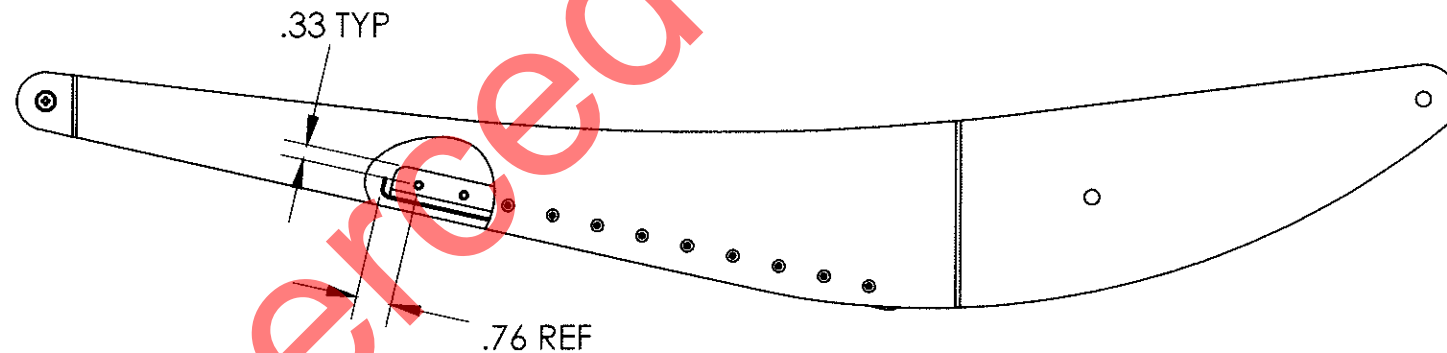
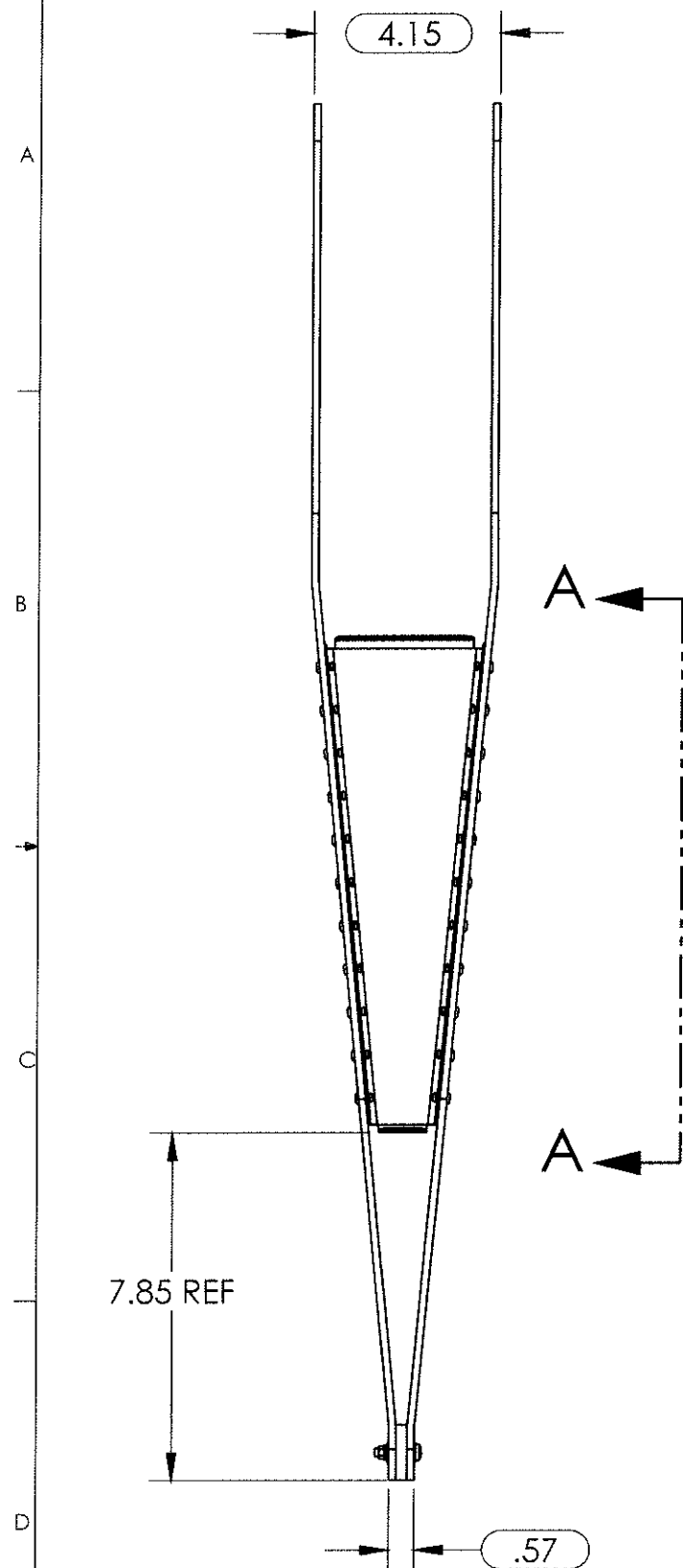


UNINCORPORATED ECN(s)

04679, 04702,

	1		10	647.1715	PLATE		
	1		9	647.1714	PLATE		
	1	1	8	601.1622	SCREW	MS27039-1-14	
	1	1	7	601.2943	LOCKNUT	MS21042-3	
	1	2	6	601.1607	WASHER	NAS1149F0332P	
	1	22	5	601.1915	RIVET	CR3213-4-4	
	1	1	4	647.1713	SPACER		
	1	1	3	647.1712	GUSSET		
		1	2	647.1711	PLATE		
		1	1	647.1710	PLATE		
	X			647.1702	SKID DEFLECTOR ASSY		
		X		647.1701	SKID DEFLECTOR ASSY		
	.1702	.1701	FIND #	PART #	DESCRIPTION	MAT'L	SPEC.
QTY				PARTS LIST			
NEXT ASSY (S)				ORIGINAL DATE (MO-DA-YR) 08/05/09			
647.1300				DRAWN BY J. GARDINER			
				CHECKER P. BRAVO			
				DRAWING APPROVAL P. BRAVO			
				CONTRACT NO.			
				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°			
				APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300			
				SKID DEFLECTOR ASSY			
				SIZE B 07M26			
				DWG. NO. 647.1700			
				REV. C			
				SCALE NONE			
				SHEET 1 OF 5			

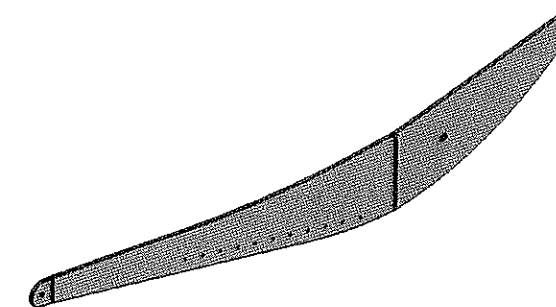
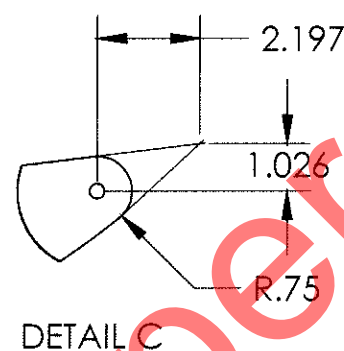
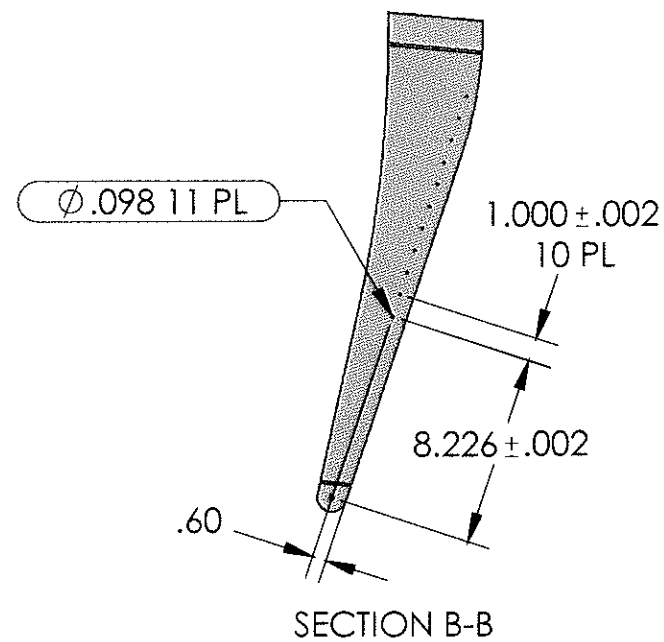
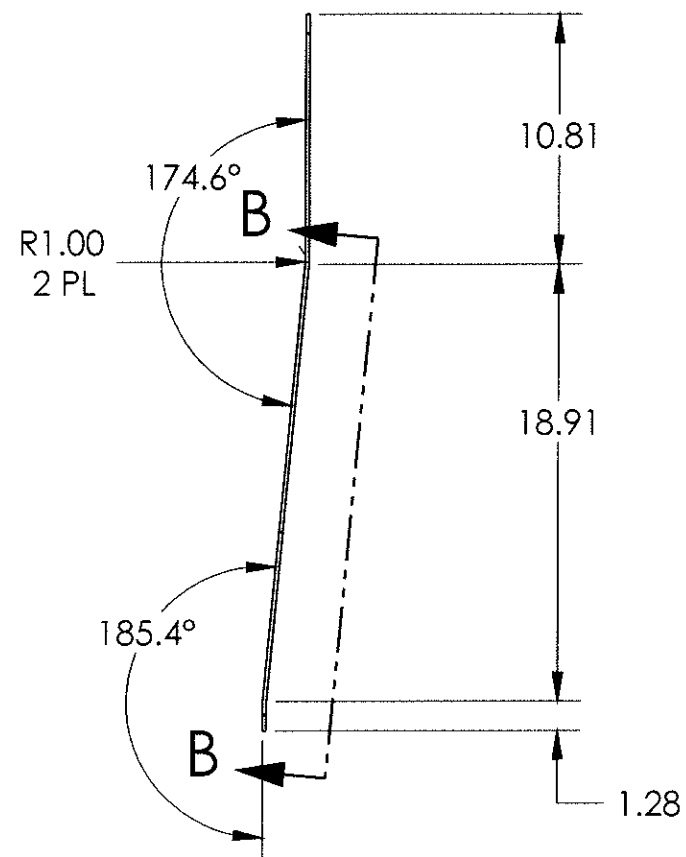
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF  
APICAL INDUSTRIES ANY REPRODUCTION IN PART OR WHOLE WITHOUT  
THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.



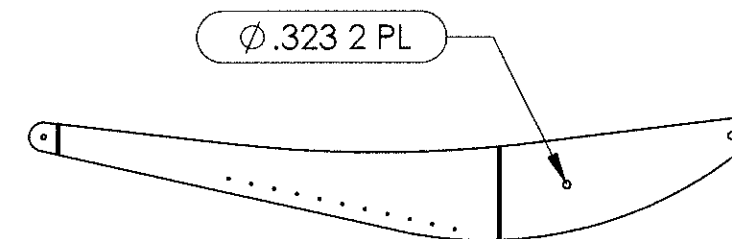
SECTION A-A

ORIGINAL DATE (MO-DA-YR) 08/05/09		APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
DRAWN BY J. GARDINER	CHECKER P. BRAVO		
DRAWING APPROVAL P. BRAVO		SKID DEFLECTOR ASSY	
CONTRACT NO.			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SIZE B	REV. C
		CAGE CODE 07M26	DWG. NO. 647.1700
		SCALE NONE	SHEET 2 OF 5

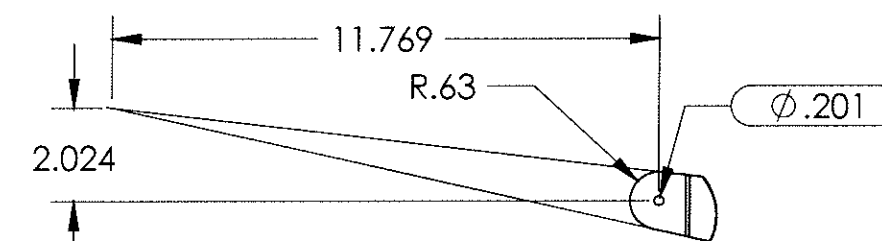
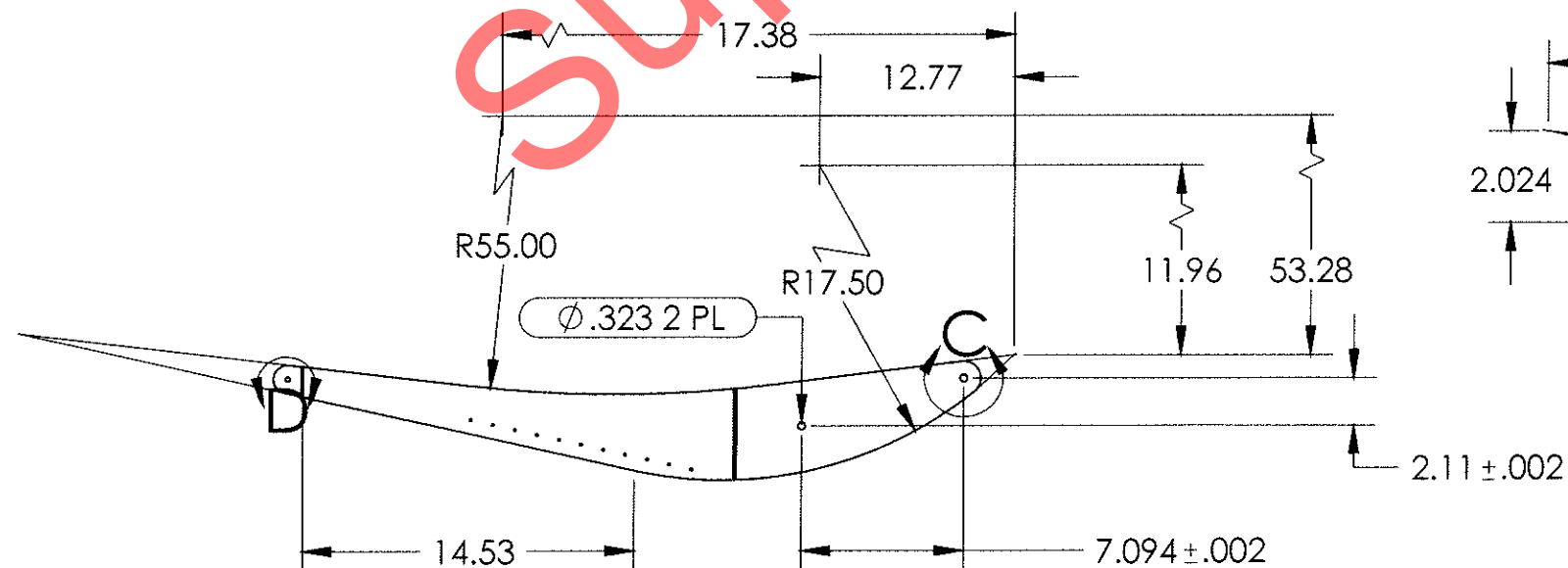
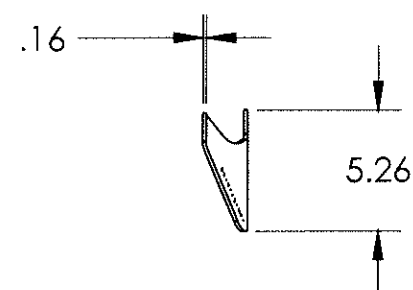
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.



647.1711 SHOWN  
647.1710 OPPOSITE



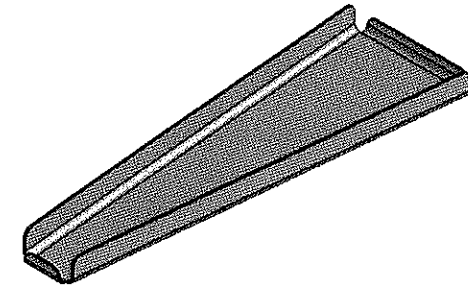
647.1714 SHOWN  
647.1715 OPPOSITE



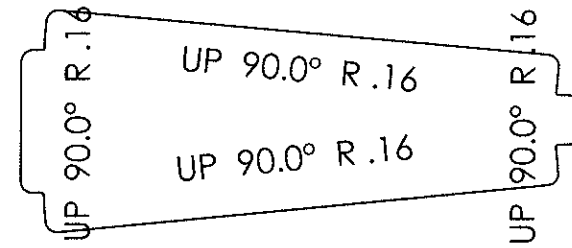
ORIGINAL DATE (MO-DA-YR) 08/05/09		APICAL INDUSTRIES	
DRAWN BY J. GARDINER		2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
CHECKER P. BRAVO		SKID DEFLECTOR ASSY	
DRAWING APPROVAL P. BRAVO		CONTRACT NO.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS $\pm .01$ 3 PLACE DECIMALS $\pm .005$ ANGLES $\pm .5^\circ$		SZL B	REV. C
CAGI CODE 07MZ6		DWG. NO. 647.1700	SCALE: NONE
			SHEET 3 OF 5



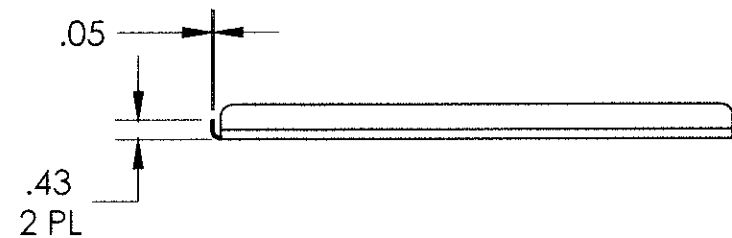
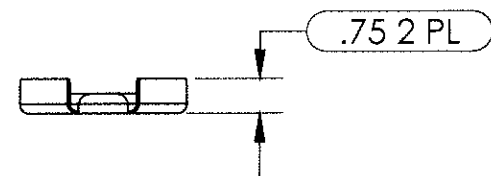
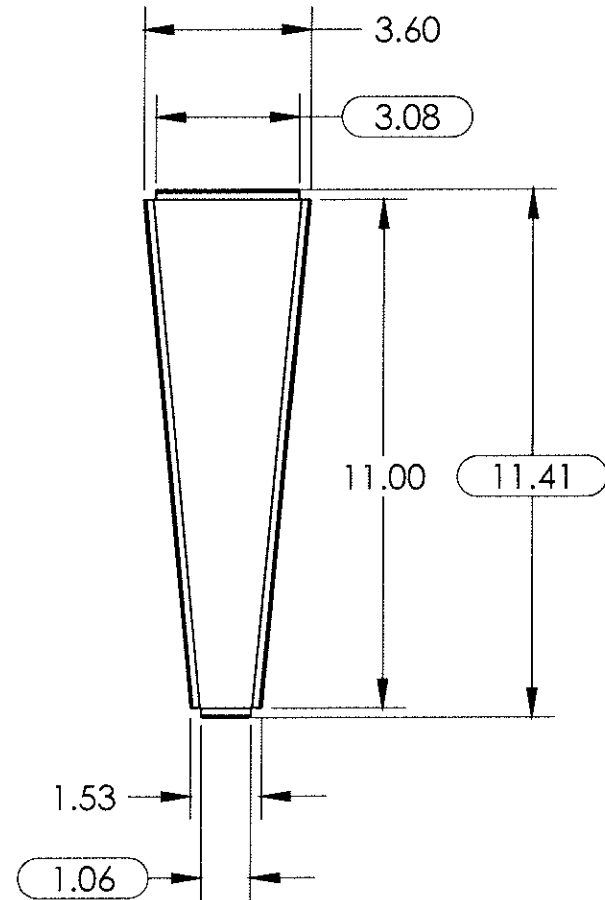
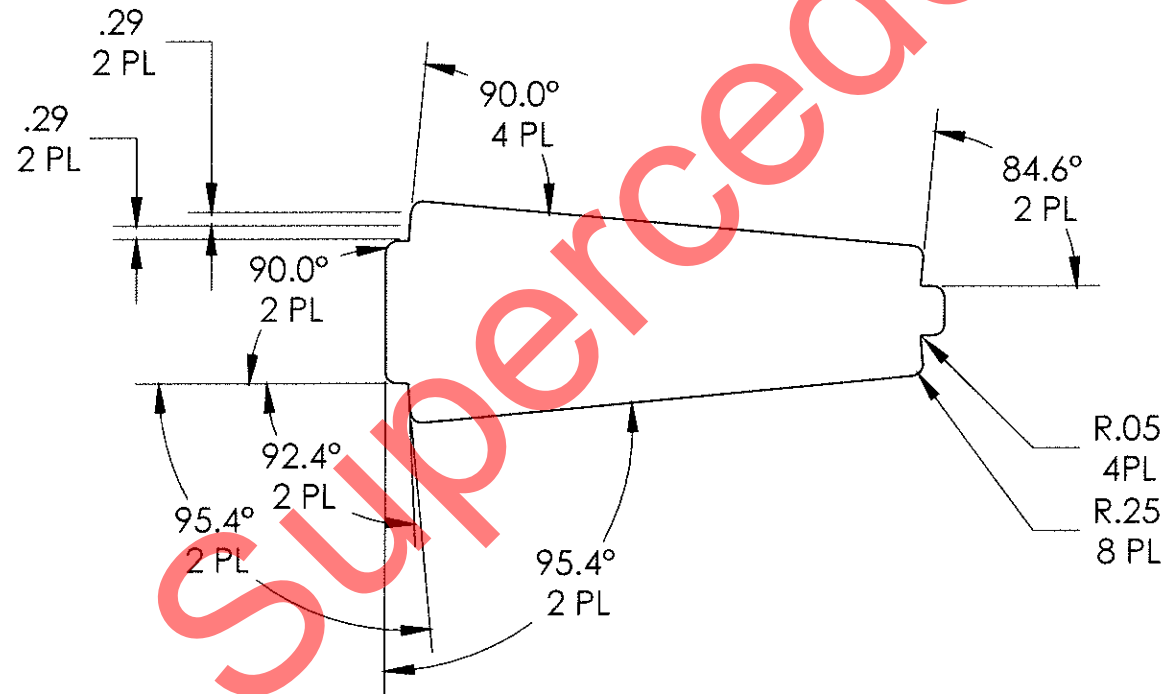
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.



647.1712

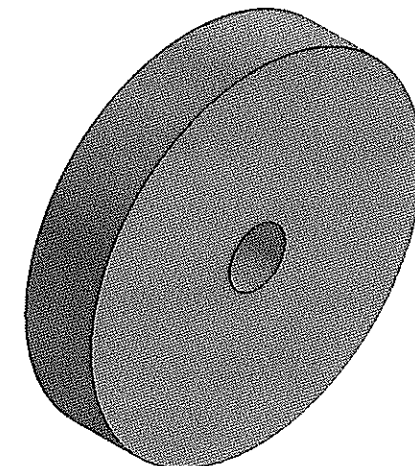
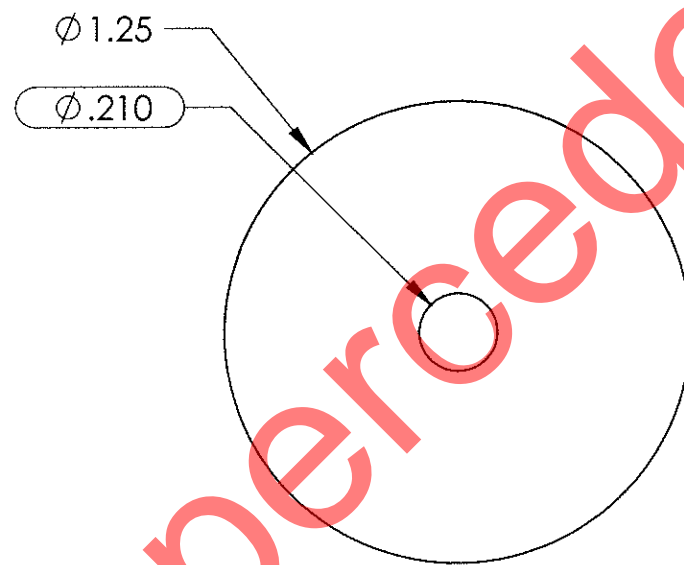
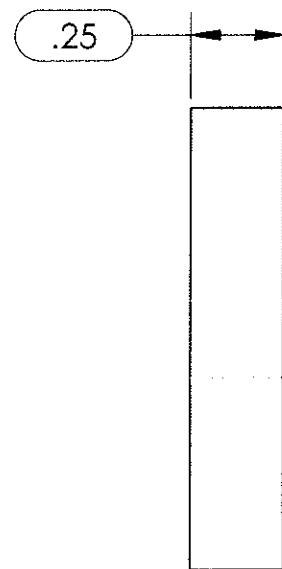


FLAT PATTERN



ORIGINAL DATE (MO-DA-YR) 08/05/09		APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300			
DRAWN BY J. GARDINER	CHECKER P. BRAVO				
DRAWING APPROVAL P. BRAVO					
CONTRACT No.					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SKID DEFLECTOR ASSY			
		SIZE	CAGL CODE	DWG. NO.	REV.
		B	07MZ6	647.1700	C
		SCALE NONE		SHEET 4 OF 5	

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.



647.1713

ORIGINAL DATE (MO-DA-YR) 08/05/09		APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300		
DRAWN BY J. GARDINER	CHECKER P. BRAVO			
DRAWING APPROVAL P. BRAVO		SKID DEFLECTOR ASSY		
CONTRACT NO.		SIZE B	CAGE CODE 07MZ6	DWG. NO. 647.1700
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SCALE NONE	REV. C	SHEET 5 OF 5